

CLAIMS

WHAT IS CLAIMED IS:

1. A transducer mount comprising a base, a first sleeve extending from the base, and a removable second sleeve slidingly engagable with the first sleeve.

2. The transducer mount of claim 1 wherein the base includes a top surface, at least one side surface, and a bottom surface.

3. The transducer mount of claim 2 wherein the transducer mount includes slots on the base top surface with slot holes extending through the base and screws fixedly engaging the slot holes for attaching the transducer mount to a housing.

4. The transducer mount of claim 2 wherein the base includes at least one slit on the at least one base side surface.

5. The transducer mount of claim 2 wherein the base includes channels on the base top surface with channel holes extending into the base and the transducer mount further comprising retaining brackets for engagement with the channels with a first hole through a first end and a second hole through a second end of the retaining brackets, first screws for attaching the bracket first ends to the base channels, a mount cover including attachment holes, and second screws for attaching the mount cover to the retaining bracket second end.

6. The transducer mount of claim 1 wherein the transducer mount includes a first sleeve inner diameter, a first sleeve outer diameter, a second sleeve inner diameter, and a second sleeve outer diameter.

5 7. The transducer mount of claim 6 wherein the second sleeve outer diameter includes screw threads for attaching an extractor tool for removing a transducer and a transducer holder from the first sleeve inner diameter.

8. The transducer mount of claim 6 wherein the first sleeve outer diameter includes at least one first sleeve flat surface and the second sleeve inner diameter includes at least one second sleeve flat surface that engages the at least one first sleeve flat surface for preventing relative rotation between the first sleeve and the second sleeve.

9. The transducer mount of claim 6 wherein the transducer mount includes a groove located on the first sleeve outer diameter and a counter bore located on a second sleeve outer face, the outer face located on an end of the second sleeve opposite the base, and the transducer mount further comprises a retaining ring that engages both the groove and counter bore for retaining the second sleeve in engagement with the first sleeve.

20 10. A transducer mount comprising:
a base including a top surface, at least one side surface, a bottom surface, slots on the base top surface with slot holes extending through the base, and screws fixedly engaging the slot holes for attaching the transducer mount to a housing;

channels on the base top surface with channel holes extending into the base;
retaining brackets for engagement with the channels with a first hole through a first end and
a second hole through a second end;

first screws attaching the bracket first ends to the base channels;

5 a mount cover including attachment holes and second screws attaching the mount cover to
the retaining bracket second ends through the attachment holes;

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a first sleeve extending from the base including a first sleeve inner diameter and a first
sleeve outer diameter with a groove and at least one first sleeve flat surface;

a removable second sleeve slidably engagable with the first sleeve including a second
sleeve inner diameter with at least one second sleeve flat surface that engages the at least one first
sleeve flat surface for preventing relative rotation between the first sleeve and the second sleeve, a
second sleeve outer diameter with screw threads for attaching an extractor tool for removing a
transducer and a transducer holder from the first sleeve inner diameter, and an outer face located on
an end opposite the base with a counter bore; and

a retaining ring that engages both the groove and counter bore for retaining the second
sleeve in engagement with the first sleeve.

11. The transducer mount of claim 10 wherein the base includes at least one slit on the at least
one base side surface.

20 12. A transducer mount comprising:

a base comprising a top surface, at least one side surface, a bottom surface, slots on the base

top surface with a slot hole extending through the base, screws fixedly engaging the slot holes and the housing, and at least one slit on the at least one base side surface;

channels on the base top surface with screw holes extending into the base;

retaining brackets for engagement with the channels with a first hole through a first end and

5 a second hole through a second end;

first screws for attaching the brackets to the channels by fixedly engaging the first holes and the channel holes;

a mount cover with attachment holes;

second screws for attaching the mount cover to the retaining bracket by engaging the mount cover attachment holes and second holes;

a first sleeve extending from the base top surface comprising a first sleeve inner diameter, a first sleeve outer diameter, at least one first sleeve flat surface arranged around and protruding from the first sleeve outer diameter, and a groove extending around the first sleeve outer diameter;

a removable second sleeve slidably engagable with the first sleeve comprising a second sleeve inner diameter, a second sleeve outer diameter, an outer second sleeve face located on an end of the second sleeve opposite the base, a counter bore located on the outer second sleeve face, at least one second sleeve flat surface located on the second sleeve inner diameter that engages the at least one first sleeve flat surface, and screw threads located on the second sleeve outer diameter; and

20 a retaining ring engagable with the groove and second sleeve counter bore for retaining the second sleeve in engagement with the first sleeve.